AMENDMENT TO RULES COMMITTEE PRINT
117–31

OFFERED BY MS. LOFGREN OF CALIFORNIA

Page 785, after line 11, insert the following:

1 **SEC. 20214. SUPERCOMPUTING FOR SAFER CHEMICALS**
2 **(SUPERSAFE) CONSORTIUM.**

3 (a) ESTABLISHMENT.—

4 　　(1) IN GENERAL.—The Secretary of Health and
5 　Human Services (referred to in this section as the
6 　"Secretary"), through the Director of the National
7 　Toxicology Program, and in collaboration with the
8 　heads of any other relevant Federal agencies (includ-
9 　ing the Administrator of the Environmental Protec-
10 　tion Agency and the Secretary of Energy), shall
11 　form a consortium, to be known as the "Supercom-
12 　puting for Safer Chemicals (SUPERSAFE) Consor-
13 　tium" (referred to in this section as the "Consor-
14 　tium") with the National Laboratories of the De-
15 　partment of Energy and public research institutions
16 　to carry out the activities described in subsection
17 　(b).

18 　　(2) INCLUSION OF STATE AGENCIES.—The Sec-
19 　retary shall allow the head of a relevant State agen-

1 cy to join the Consortium on request of the State

2 agency.

3 (b) CONSORTIUM ACTIVITIES.—

4 (1) IN GENERAL.—The Consortium, working

5 through the National Laboratories and public re-

6 search institutions, shall use supercomputing, ma-

7 chine learning, and other similar capabilities—

8 (A) to establish rapid approaches for large-

9 scale identification of toxic substances and the

10 development of safer alternatives to toxic sub-

11 stances by developing and validating computa-

12 tional toxicology methods based on unique high-

13 performance computing, artificial intelligence,

14 machine learning, and precision measurements;

15 (B) to address—

16 (i) the need to identify safe chemicals

17 for use in consumer and industrial prod-

18 ucts and in their manufacture to support

19 the move away from toxic substances and

20 toward safe-by-design alternatives; and

21 (ii) toxic substance exposures in dis-

22 advantaged communities; and

23 (C) to make recommendations on how the

24 information produced can be applied in risk as-

25 sessments and other characterizations for use

1 by the Environmental Protection Agency and
2 other agencies in regulatory decisions, and by
3 industry in identifying toxic and safer chemi-
4 cals.

5 (2) MODELS.—In carrying out paragraph (1),
6 the Consortium—

7 (A) shall use supercomputers and other
8 virtual tools to develop, validate, and run mod-
9 els to predict adverse health effects caused by
10 toxic substances and to identify safe chemicals
11 for use in products and manufacturing; and

12 (B) may utilize, as needed, appropriate bi-
13 ological test systems to validate approaches and
14 improve their predictability and reliability in in-
15 dustrial and regulatory applications.

16 (c) PUBLIC RESULTS.—The Consortium shall make
17 model predictions, along with supporting documentation,
18 available to the public in an accessible format.

19 (d) AUTHORIZATION OF APPROPRIATIONS.—

20 (1) IN GENERAL.—There is authorized to be
21 appropriated to the Secretary to carry out this sec-
22 tion—

23 (A) for fiscal year 2022, $20,000,000;
24 (B) for fiscal year 2023, $30,000,000; and

4

1   (C) for each of fiscal years 2024 through

2   2026, $35,000,000.

3   (2) AVAILABILITY.—From the amounts made

4 available under paragraph (1) for a fiscal year, not

5 less than $5,000,000 shall be available to the Envi-

6 ronmental Protection Agency.

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